(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 November 2005 (03.11.2005)

PCT

(10) International Publication Number WO 2005/103691 A1

(51) International Patent Classification:

G01N 33/50

(21) International Application Number:

PCT/EP2005/004227

(22) International Filing Date: 20 April 2005 (20.04.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 04447102.7

21 April 2004 (21.04.2004) E

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE FOR SENSING OF MOTILE LIVING ORGANISMS AND USES THEREOF

(57) Abstract: The present invention relates to the field of devices for studying behaviour of motile living organisms in a multiplexed array format. The present invention provides devices comprising a solid porous support having first and second surfaces, said first surface comprising an agent and/or condition delineating behavioural and/or physical barriers for motile living organisms, and, where behavioural, said barriers adapted for sensing by said living organisms and hence forcing said living organisms to remain localized within a predefined region of said support. In addition the invention provides methods for screening test molecules or effector molecules which affect behaviour, motility and/or health of a motile living organism.

